

TOP SECRET ANTIMISSILE TEST CENTER, SARY-SHAGAN, USSR CHANGES AND ADDITIONS 25X1 NPIC/R-162/64 . March 1964 NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER TOP SECRET

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	PREFACE	
	This report is in partial response to	requirements AF-4-63
	and OSI/R-135/63. It provides information on t	Sary-Shagan, 25X
•	USSR, (Figure 1), supplementing previous re on KEYHOLE photography from Included are descriptions of the facilities Base, Launch Complex A, Launch Complex E	comprising the Support
	the recently constructed triad of buildings, at approximately 41 nautical miles (nm) south-so A detailed report 7' was published in July	outhwest of Sary-Shagan.
<i>i</i> .	antennas.	
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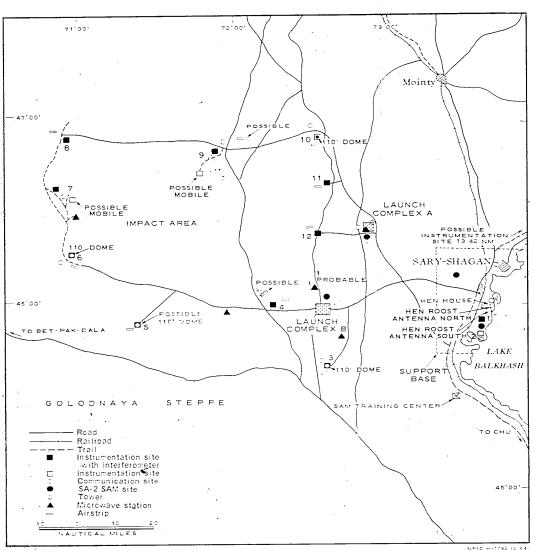


FIGURE 1. ANTIMISSILE TEST CENTER, SARY-SHAGAN, USSR.

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	SUMA	MARY			
25X1	VENUE E missions	building was comi	oleted in the large central	-	
	Photography from KEYHOLE missions was com-	facility at this site.	•		
. 25X1	pared with previous photography in order to	At Laumch Cor	mplex B little or no change	{	
	update existing reports on the Sary-Shagan	was discernible in	the support and launch areas d. Construction continued,		
ĺ	Antimissile Test Center (SSATC). This photog-	bowever in the tri	ad of buildings just southwest	-	
	raphy covers the entire Center and represents generally the best KEYHOLE coverage received	of Facility B. (	Current emphasis has been		
	to date. Stereoscopic coverage is provided on	primarily on the s	site exterior and on the roof ,		
	almost all of the facilities. No new operational	of the large rec	etangular building, where a		
	antimissile-missile launch complexes have been		or disc-like object was ob-		25X1
1 .	identified. Almost all the facilities comprising	served in	urrently at Instrumentation		
25X1	the Support Base have undergone change or expansion in varying degree from	Sites 2 and 10 and	Possible Instrumentation Site	j	
25X1		13.		\$ # \$ =	25V4
	At Launch Complex A minor building con-				25X1
25 1	struction has occurred in the headquarters and	1			25X1
25X1	administration area from  Activity and movement of equipment were	Anothe	er area of interest has been		
25X1	noted in the six launch sites and associated	under developmer	nt at Possible Instrumentation		25X1
	electronic facilities. The only significant ex-	Site 13 since	close to the building ting to date of a linear ex-		
-	pansion of facilities at these sites during this	triad and consis	imately 2,200 feet long) with	•	
	period occurred at Electronic Site C. associated	a large unident	tified possible structure in		
	with Launch Sites 5 and 6. An approximately 300-foot-long extension to the modified L-shaped	the center.		*	
	300-1001-10tig extension to the				
	SUPPO	ORT BASE			
	The Support Base (Figure 2) has been	in the Main Ho	using Complex close to Lake	•	0574
	covered by generally very good KEYHOLE	Balkhash From	n the	9	25X1
100	photography. Relatively significant development	t 16,500-foot-long	dirt strip was widened from 270	9	
_	has taken place in the following areas: Mair	feet to 1,500 fee	t. The SAM Training Center bed under the Support Base	,	
	Housing Complex, Dirt Strip, Instrumentation		on photography of	_	25X1
	Site 1, Instrumentation Site 2, and Communications Site 1. Minor changes have been noted	d and has been	active since that time when	n	
	in the majority of the other facilities. Almos	t photographed. (	One additional SAM launch site	e n	
	continuous development has been observed i	n and one propab	le SAM Jaunch site have beer	11 .	25X1
	the warehouse and housing areas and at the		a small number of buildings	 5.	25X1
	Probable Range Headquarters Complex Contro Area situated in the Main Housing Complex	Construction cor	ntinues at Instrumentation Site 1	1,	207(1
#	Area situated in the Main Housing Complex  A tower approximately 700 feet high was erecte		station now has been identified	d.	
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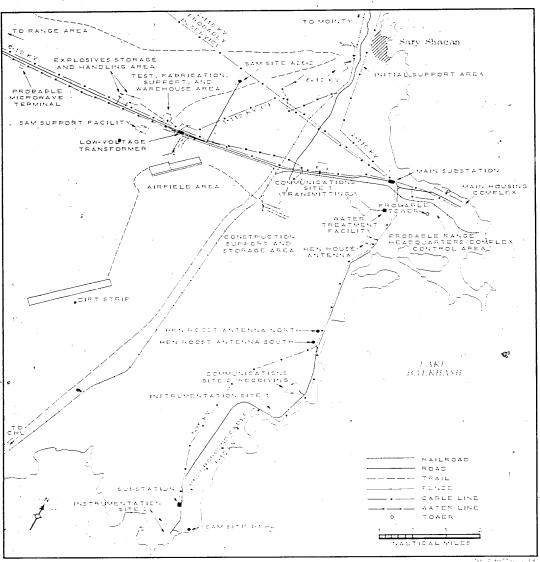


FIGURE 2. SUPPORT BASE.

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1.	MAIN HOUSING COMPLEX	southwest of the New Housing Area, has under-	·
•		gone expansion since and changes	25X1
_	Housing and Storage Facilities (Figure 3).	continue on the latest coverage of	25X1
25X1	The Original Housing Area underwent no significant change from	Foundation for a new building (390	25X1
25X1	Along the eastern boundary of the New	by 65 feet) was observed in in the	25X1
20/	Housing Area 16 new dwellings units (the 5	northeast corner of the site. The exterior appeared complete or nearly complete by	25X1
	Flargest approximately 210 by 60 feet) have	Additional work has been accomplished	25X1
057/4	been added, some of which were under con-	on a recently constructed building in the north-	
25X1	struction in Continuing construction	west corner so that it now appears to be	
25X1	at this area has been observed from that time	composed externally of a single unit rather than	
23/1	until Foundations for 6 additional	the two units apparent in . Construction	. 25X1
25X1	buildings (5 large and one small) were noted on photography of	activity was visible on the roofs of both build-	05)/4
. 20/(1	on photography of In the area mid- way between the Original and New Housing Areas	ings from Good-quality	25X1
	one new building was observed under con-	photography of reveals a probable	25X1
25X1	struction in	tower adjacent to the base of the administration building and a second smaller storage tank,	
	In the Warehouse Area just south of the	approximately 25 feet in diameter, adjacent to	
25X1	Original Housing Area from	the 35-foot tank.	·
25X1	ten small probable warehouses were con-	By a building 180 by 55 feet	25X1
25X1	structed, two of which were under construction	was observed under construction in the south-	
	in a tota! of 18	west corner of the site, and at the same time	
F	such buildings (each approximately 80 by 30 feet) appeared at the site. Two warehouses	an unidentified structure (255 by 110 feet)	
	were erected along the rail line in the Ware-	was being erected outside the fenced site	
25X1	house Area from	and just southwest of this new building. A roughly parallel system of ground conduits.	
e i	Close to the shores of Lake Balkhash and	which appeared between	25X1
	just off the northwest corner of the New Housing	extends from the building to the Probable	
*0EV4	Area a tower (approximately 700 feet high)	Range Headquarters Complex Control Area.	· .
25X1	was observed on photography of	Plus Configurations (Figure 3). In	25X1
	It is situated in an enclosed area (approximately 480 by 430 feet) which also contains a build-	two plus configurations were observed	25X1
	· ing 135 by 90 feet, five very small structures,	under construction midway between the Probable	
	and a probable gatehouse.	Range Headquarters/Complex Control Area and the HEN HOUSE antenna. The one closer to	
	The rail-served storage area just south-	the HEN HOUSE antenna was in an initial	
	east of the New Housing Area can now be	construction stage; the other, in a more advanced	
	identified as a Probable POL Storage Area.	stage, has crossarms approximately 1,000 and	
25X1	One new support building (95 by 55 feet) appeared	900 feet long, respectively. No evidence of	
25X1	along the rail spur between	this activity could be found on photography	
23/(1	Two groups of six tanks each are observed in the area east of the rail line.	of Earth for constructing	25X1
•	Probable Range Headquarters/Complex	the plus configurations apparently was obtained	25X1
	Control Area (Figures 3 and 4). This area,	from adjacent borrowpits. From work of a minor nature continued on the	
¥	· ·		25X1
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, we	northern plus configuration; the southern one remained unchanged. From the point where	area located 1.6 nm northwest of the center		
25X1	a ground scar extends from the Probable Range Headquarters Complex Control Area to the HEN HOUSE antenna, two additional scars were noted on photography of one extending to the bisection point of the crossarms	of the primary Sary-Shagan Airfield. It was under construction in and appeared virtually complete by photography shows the components to be similar to those found at conventional SA-2 SAM support facilities else-	:	25X1 25X1 25X1
	of the northern plus configuration, the other extending to the southern plus configuration.	where in the USSR. No significant change was observed in components from Numerous vehicles or pieces of equipment were observed lined up along the		25X1 25X1
		northwest and northeast boundaries of the facility in A dark ground pattern along the south-central boundary on		25X1 25X1
•		photography had increased in size by  A dark pattern, possibly a ditch, is noted just south of the main assembly/ receiving building.		25X1 25X1
		SA-2 SAM SITES		
25X1	FIGURE 4. PROBABLE RANGE HEADQUARTERS COMPLEX CONTROL AREA	Four operational SA-2 SAM sites and their associated on-site support facilities have been deployed to date at SSATC at Launch Complex		
	TEST, FABRICATION, SUPPORT, AND WAREHOUSE AREA	A, at Launch Complex B, near Instrumentation Site 2, and near the primary airfield. All sites were constructed or under construction some-		
25X1 25X1	No change was noted between in the Test, Fabrication, and Support Facilities comprising this area (Figure 5). In the Warehouse Facility during this period	time between and are of the hexadic star type. No recent change was observed in facilities at the launch sites except for the addition of an unidentified structure just		25X1
	seven warehouses of various sizes and positioned in two rows were completed close to the east	outside the fenced area at the SA-2 site near the airfield. This structure appeared between		25X1
25X1	side of a new rail siding. Most of these warehouses were under construction in Afence existing at the site of the new warehouses has been dismantled. No new buildings were erected along the west side of the new siding.	No recent change of significance was observed at associated on-site support facilities except for the addition of one building (approximately 110 by 65 feet) at SAM Site C35-2 near	7 2 - ""	25X1
		Launch Complex A between		25X1

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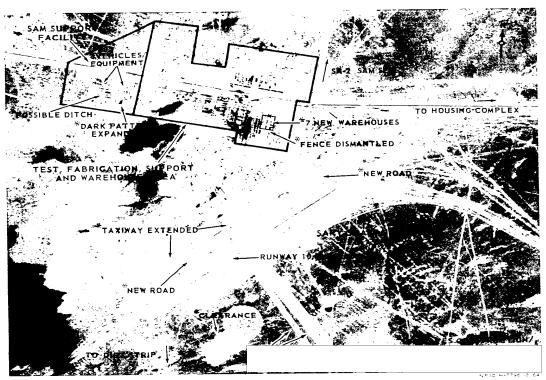


FIGURE 5. SARY-SHAGAN AÍRFIELD, TEST, FABRICATION, SUPPORT, AND WAREHOUSE AREA; AND SAM SUPPORT FACILITY,

25X1

ing of one long revetted building (probably for missile ready storage), one building (approximately 110 by 65 feet), and several other smaller support structures. The 110- by 65-foot building, which may provide limited checkout capabilities, is present at SAM Sites A26-2 and C35-2 and possibly at SAM Site B19-2. None can be identified to date at SAM Site B27-2. These on-site support facilities differ in size, layout, and buildings from the conventional on-site support facility.

#### SAM TRAINING CENTER

Photography of revealed the existence of a SAM Training Center (Figure 6) approximately 41 nm south-southwest of the village of Sary-Shagan. The Center consisted primarily of a rectangular area, probably secured and measuring 3,170 by 885 feet, with three SAM launch sites positioned inside. The rectangular area is oriented north-south along its major axis. Immediately to the east were one main support area and 4 smaller support areas having a total

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of approximately 10 structures, and 2 probable motor pools, which appeared to be secured. Approximately 2,300 feet south of the rectangular	to the north bound an area of unident	I launch site appeared adjacent dary of the rectangular site with diffed scraping just beyond to the
site was an unidentified road-served structure  Retween consider-	to the south bound	e launch site appeared adjacent ary. Activity has been observed ble motor pools in this period.
ably more trackage was observed at the Center	. at the two provides	0
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	In the main support area 4 structures were added,	beacon 3,000 feet southwest of and aligned	
	and 2 small additional support areas with uniden-	with the center of the strip. A possible	
	tified structures or vehicles were observed at	outer marker beacon was observed 10,000 feet	
	the Center. There was no significant change in	southwest of the strip. Earth scarring was noted	_
1	facilities from Activity was	in just north of the center of the	25X1
	observed at one or more of the central areas of	strip and just north of the east end of the strip.	
	the three launch sites within the rectangular area	Between the only	25X1
(1	in Inter-	discernible change was the conversion of the	
	pretation of the Center is generally limited on	scarred area north of the center of the strip into	
	most missions by haze, clouds, and cloud shadow.	an unidentified triangular area. Between	25X1
	SARY-SHAGAN AIRFIELD	the strip was widened from ap-	25X1
1	Sometime between	proximately 270 to 625 feet. On	25X1
1	the taxiway paralleling and just north	the strip had been cleared of snow, as were	25X1
1	of the runway at Sary-Shagan Airfield (Figure 5)	sections of the roads in the immediate vicinity of the strip and the triangular area just north of the	
•	was extended from 6,000 to	center of the strip. The road to the primary air-	
	10,000 feet, the full length of the runway. In the	field had not been cleared of snow. On	25X1
	same period two short road spurs were con- structed from the parallel taxiway to the two	the strip was completely snow covered	25X1
	•	although most of the facilities at the primary air-	23/1
	navigational aids between the runway and parallel taxiway. Between	field had been cleared. Removal of snow had	
	two strips were cleared adjacent to and a short	started on the road extending from the airfield	
	distance from the 5,175-foot-long strip extending	to the dirt strip.	_
	south from the primary runway. No additional	From the dirt strip	25X1
	work appeared to have been accomplished beyond	was widened from 625 to 1,500 feet. It was	
	initial clearance on these strips, which also are	lengthened slightly at the southwest end, giving	
1 .	approximately 5,175 feet long. On	a total of 16,500 feet; at the same time additional	
1	the northwest 'southeast strip and the pri-	ground scarring and several small unidentified	
1	mary runway were free of snow; the two recently	structures appeared at the east end of the strip.	
•	cleared strips remained snow covered. On	Photography of showed the	25X1
1	all three northwest southeast	triangular pattern north of the center of the strip	
	strips were snow covered. The circular 2,000-	had assumed a rectangular shape, with extensive	
	foot-diameter cleared area and the rectangular cleared area just west of the three northwest	ground scarring at the site. Work continued into	
	southeast strips showed no sign of usage or of	and several small unidentified	25X1
	snow removal. The rectangular area appeared to	structures were observed at the site.	
	have received additional clearing between	INITIAL SUPPORT AREA	_
			25V1
. L	DIRT STRIP	Between the following construction took place in and near the	25X1
•	Between the	housing and support facility of the Initial Support	
	only change apparent at the dirt strip (Figure 7),	Area which is located in the northern part of the	
	approximately 4.5 nm south-southwest of the	Support Base: 2 large buildings in the southern	
	airfield, was the appearance of an inner marker	section, 2 long rectangular buildings in the cen-	
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FIGURE 7. DIRT STRIP

25X1

tral sector, 8 small buildings in the northern section, 12 buildings north of the area, and one warehouse along the rail line forming the northern boundary of the area.

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# CONSTRUCTION SUPPORT AND STORAGE AREA

No significant change has been noted in the permanent facilities in the Construction Support and Storage Area since except for the addition sometime between of a large multistory building in the east-central sector just south of Barracks Site No 1.

Photography of showed construction to be continuing at the multistory building.

### EXPLOSIVES STORAGE AND HANDLING AREA

The Explosives Storage and Handling Area (Figure 8) consists of two separate, double-

fenced road-served facilities. Components obin the smaller of the two facilities are now complete. A loop road has been constructed serving the drive-through building and there are two probable buried tanks positioned one on either side of the revetted struca small administrationture. By type building had been constructed at the entrance to the facility and a ground scar appeared from the steam and heat plant to a small structure near the drive-through building. Photography of reveals activity near the southwest corner of the facility. Four walls of an unidentified structure approximately 110 by 100 feet were being erected during this period, and three vehicles or pieces of construction were material observed at the site in

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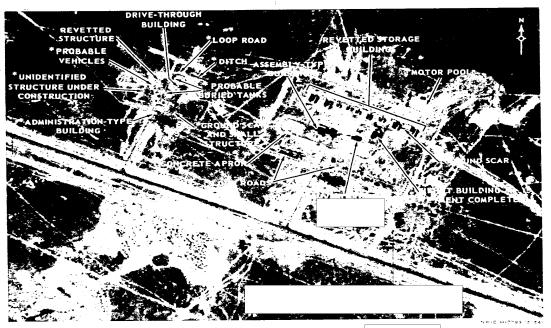


FIGURE 8. EXPLOSIVES STORAGE AND HANDLING AREA

25X1

not present the following month. A ditch is visible in the northeast corner of the site.

In the larger of the two facilities, building and road construction observed in had been completed by The revetted storage buildings appeared unchanged from

except for the addition of a ground scar between the two more easterly. The revetment serving the Hi-Hat building had been completed. The drive-through building, 105 by 65 feet, remained unreyetted and complete. The revetment along the south side of the assembly-type building (135 by 95 feet) remained shorter than the other. Loop roads were constructed near the southwest corner and in the south-

central sector during this period. A motor pool was visible just outside the northeast corner of the facility. A road leads north from the site for a distance of approximately 2,800 feet to a point where it forms a loop containing a possible structure.

## HIGH EXPLOSIVES STORAGE AREA

This area (Figure 9), situated approximately 1.5 nm southwest of the Probable Microwave Terminal along the western edge of the Support Base, on KEYHOLE photography of appeared as a possible storage area under construction. Better coverage of reveals that it is a completed high explosives

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	storage area, possibly for construction purposes. No additional facilities of significance	PROBABLE MICROWAVE TERMINAL J
25X1	were added between	inal, which is located at the western edge of the Support Base, appear unchanged since
25X1	REVETTED STAR TERMINE STRUCTURES IS STUDENTS OR STRUCTURES IS STORAGE AREA	INSTRUMENTATION SITE 1  Change continued in the facilities at Instrumentation Site 1 (Figure 10) since The interferometer appeared in sentially as it did in the crossarms were not visible, and what seemed in to be small plowed or scarred patches of various sizes in the center mounded area still appeared generally the same in size and number. The fence and circular road remained. In the support area 12 buildings were added between  No significance change was observed here between  structures of various sizes were added to the control area and the probable instrumentation area. These include two buildings (each approximately 90 by 90 feet) at the base of an L configuration southwest of the control area close to the edge of a circular mound 450 feet in diameter. These buildings, tracking facilities, each appeared to be multistory and to have an unidentified object on the center of the roof. The dis-
25X1		tance between building centers measures 420 feet. Approximately 3 very small structures of the total of 10 were constructed in the vicinity
25X1	The area 1960 by 270 feet) consists of three low structures revetted on three sides.  Two of these structures are similar, measure	of the L configuration by From eight buildings were added
	approximately 155 by 65 feet, and have two ex-	to the control area of which one building is situated along the 1. configuration. Additional
25X1 25X1	corner of each roof. The third and smallest structure is approximately 65 by 50 feet. Several very small support structures are located inside the cleared area and just outside the north boundary. The area and access road had not been cleared of snow on photography of	scarring and evidence of extensive vehicular traffic have occurred since Of interest is an area of activity near the northeastern boundary of the control area where new building
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25X1 25X1

25X1 25X1

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-	N N	INTERFEROMETER	TO HEN ROOST		
	UNIDEN BUILT CONSTRI	ING		•	25X1
	TO INSTRUMENTATION TRACKING STATION	SUPPOR			
	PROBABLE INSTRUMENTATION AREA				25X1
	FIGURE 10. INSTRUMENTA	TION SITE 1	25X1 ***		
25X1	tinguished on available photography, the sites of the antennas observed on TALENT photography have been relatively undisturbed by trackage and ground scars since	a triad of buildings were time on along the southern bounds	hotography constructed	_	25X1 25X1
25X1	INSTRUMENTATION SITE 2 Instrumentation Site 2 (Figure 11) was composed in of a radar operations area, a support area, and a tall self-supporting lattice tower. The radar operations area hore a cer-	tions area. Chronologic triad, where construction in Table 1. This triad co building triads which we quently at four SA-1 si	al development of this continues, can be found impares favorably with re constructed subse-		
25X1	tain resemblance to facilities observed at Electronic Site C at Launch Complex A. Between the SA-2 SAM launch site and support facility were constructed.		ng, approximately 135 be under construction d L-shaped building in		25X1 25X1
25X1	Changes of note appeared at Site 2 from	building appeared compl			
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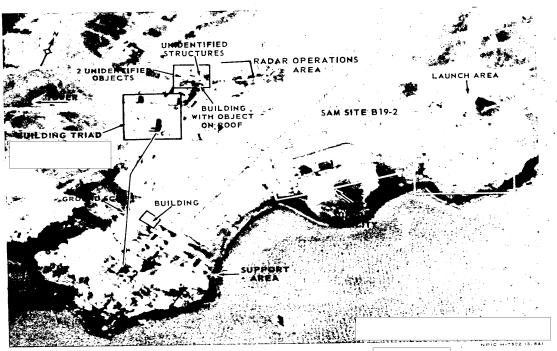


FIGURE 11. INSTRUMENTATION SITE 2 AND SAM SITE B19-2,

large object on the roof, which was considerably larger than the roof objects on the small buildings of the triad. By a narrow structure paralleling and just north of this building had appeared and a connection was visible between this recently constructed building and the modified L-shaped building. Activity in the general area of this new building and the triad since has consisted of a number of small structures and in two unidentified light-toned objects were apparent here. A ground scar appeared between extending from the large rectangular building of the

triad to the support area of the site. From

25X1

25X1

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25X1

one new building was added in the support area.

## COMMUNICATIONS SITE 1

At Communications Site 1 (Figure 12) just west of the Main Housing Complex, KEYHOLE photography reveals additional probable dipole antennas of undetermined number since in the northeastern sector, paralleling many of those previously observed and forming a roughly semicircular pattern north of the control building. Several very small structures have been added since one just southeast of the control building, three along the southern

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		boundary of the site is not discernible on the KEYHOLE photography.  COMMUNICATIONS SITE 2	
		At Communications Site 2, just north of Instrumentation Site 1, are noted on photography the control building, the guard build-	25X1
		ing, and 6 very small structures or vehicles (4 of which were not visible on photography). The rhombic antennas observed along the eastern and western boundaries of the site on TALENT photography are not discernible on the KEYHOLE photography.	25X1
ILLEGIB		Recent photography of this site is of relatively poor quality. The site is approximately 16 nm west of Launch Complex B in the Impact Area and was under construction in On	<b>2</b> 25X1
		photography of the following were observed: 2 unidentified structures in the northernmost area of the site, one structure in the area second from the north, one in the southernmost, and approximately 7 structures in the	25X1
•	fence line and one small building along the so.	tion of these facilities is not possible. Several	
25X1	ern fence line. This building was observed to under construction from and during the same period a number of gro	be occupied. The possible airfield reported from photography just southwest of the site remains unchanged.	25X1
25X1	scars appeared on the west side of the server road; one extended from this new building to control building and in extension we noted beyond to the northeast. A rectangular pattern of scars also appeared between the servers of the	the A site located approximately one nm south- was southwest of the HEN HOUSE Antenna and re- lar ported 5 as a possible instrumentation site has	8.
25X1	vice road and this new ground scar. The field double rhombic antennas observed on TALE photography of close to the wester	of number of facilities and scarred area remained NT in essentially as they appeared on	25X1 25X1
	LAUNG	CH COMPLEX A (Figure (f))	
	HEADQUARTERS AND ADMINISTRATION AR In the Headquarters and Administration Area (Figure 14) relatively few changes (Figure	EA curred during the period from and these were primarily in the	25X1 25X1
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and SAM Site C35-2. No change of significance was noted in the housing section during this time. Four relatively large warehouses and 3 small buildings were added along the southern and western areas of the warehouse section. In the possible electronic site, development took place principally in the western area. Two large rectangular buildings (observed under construchave been completed here and tion in another one constructed in addition to 8 small buildings. Better photography of the complex has permitted identification of certain facilities which existed before but were not sufficiently clear for identification. In the SA-2SAM on-site support a new rectangular building and two very small structures have been added during this period. No change in permanent facilities is

ELECTRONIC SITE C

ELECTRONIC
SITE D

LAUNCH SITE S

LAUNCH SITE S

CHECKOUT AREA

CHECKOUT AREA

ELECTRONIC
SITE B

Chesite
Support Facility
ADMINISTRATION AREA

SAM SITE CSE-2

LAUNCH AREA

AIRSTRIP

2500 0 5000
(APPROXIMATE)

FIGURE 13. LAUNCH COMPLEX A.

·
noted at the airstrip southwest of the head-
quarters and administration area since
however, photography of reveals
a landing T on the strip. Five small buildings
and 8 very small structures in the airstrip sup-
port area are more distinct than previously and
have undergone no apparent change since
the entire strip was
cleared of snow; however, the access road to the
Headquarters and Administration Area had not
yet been cleared.

#### LAUNCH SITES 1 AND 2 AND ELECTRONIC SITE A

(Figure 15)

Launch Sites 1 and 2, which were observed to be complete or nearly complete in and probably complete by semble in certain respects the fan-shaped sites of the SA-2 SAM launch system. Both sites consist of 5 or possibly 6 drive-through launch positions, a central unrevetted guidance area, \* and an outer service road. The diameter across the site from launch position to launch position is approximately 500 feet. Good-quality current photography reveals the existence of a tower in the area between the two launch sites. The two sites are double fenced, at least on two sides, and at least three probable guard posts and a gatehouse are positioned along the fence. Revetments are not discernible at the launch positions of either site although those at SAM Site C35-2 are clearly visible. During the period activity seemed to be focused primarily on the central guidance area and on a small hardstand along the outer service road of each site.

The central guidance area at Site 1 in appeared to consist of 5 structures (2 relatively large) and a number of pieces of equipment or vehicles. The number of pieces of equipment

- 15 -

TOP SECRET

25**X**1

25X

25X1 25X1

25X1

25X1

25X1

25X<sup>2</sup>

e Liver de	TOP SECRET		25X1
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•	TO LAUNCH PROBABLE STAIN	8	
	TO LAUNCH AREA  POSSIBLE CLECTRONIC INSTRUMENTATION SITE 12  ON-SITE SUPPORT FACILITY FACILITY		
	APEN STORAGE AND MOTOR POOL  PROBABLE WATER TRAILS PIPE TRAILS  MOTOR POOL  WAREHOUSE SECTION  Trail Fence Water line	3	25X1
1	FIGURE 14. HEADQUARTERS AND ADMINISTRATION AREA, LAUNCH COMPLEX A	1	
	TOP SECRET 25X1	•	25 <b>X</b> 1

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1	TOP SECRET		-	25 <b>X</b>
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1 1	Road Fence Power line Trail Building/equipment A Probable guard posts  FEET (APPROXIMATE)  Road FEET (APPROXIMATE)  LAUNCH SITE 2	ach		
	LAUNCH SITE 4  GATEHO  GATEHO  OR SMALL  STRUCTURES  DARK  D	ELECTRONIC SITE A		
	LAUNCH SITE 3  LAUNCH PADS WITH UNIDENTIFIED OBJECTS			
1	ELECTRONIC SITE B			25)
•	FIGURE 15. LAUNCH COMPLEX ALAUNCH SITES 1-4 AND ELECTRONIC SITES A	AND B		25>
	- 17 	•		
	TOP SECRET			25 <b>X</b>

	TOP SECRET					25X
	NPIC 'R-162'64					
	NPIC N-102 (9					
25X1	or vehicles has changed from time to time, and sometime between the two large structures was removed. The launch positions appeared relatively inactive, although a very small object with little or no height was barely discernible on the majority of	the one side and by on the other, appear served concrete pa	dance area, bordered by the of the radial road pattern on a semicircular road pattern rs to consist of a small road-d occupied by small pieces picles. These change in numbers mission to mission.		8	
25X1 25X1	the launch positions.  The central guidance area at Site 2 decreased from 4 structures in to 3 in The launch positions appeared relatively inactive when photographed. The small	Photography of revealed a pair of proximately 50 by ward portion of each	f Launch Site 3 in unidentified objects each ap- 20 feet and located on the out- th launch position. These ob-			25X1
25X1 25X1	hardstand along the outer service road was usually occupied by a varying number of vehicles and for pieces of equipment, and in and by an object with height and two very small structures.	photography of only two launch posobjects and one or maining four launch	erally in the same position on sitions were occupied by these two smaller objects. The re- ch positions were either un-	•		25X1
25X1 25X1	The two largest structures at Electronic  Site A have remained from  but smaller structures or equipment have shifted from time to time. There was no evidence	objects. The two	ed by from one tothree small launch positions continued to by the pair of large aller objects have shifted or	) :	2	5X1
25X1	of this site in site was complete or nearly complete.  LAUNCH SITES 3 AND 4 AND ASSOCIATED ELECTRONIC SITE B	objects were obse to the launch posit		I t	3	25X1
25X1	(Figure 15)  Launch Sites 3 and 4, which were not present in were observed under construction were observed complete, and	is that of be active with a value on the front and i	rage of Site 4 since which revealed the site to aried number of small object rear sections of all six launc	s h		25X1
25X1 25X1	active by The sites are of similar configuration and are generally circular. Each is composed of six unrevetted launch positions of	positions. As man noted on one positioned on the adjo	ny as six of these objects wer ition and a number were posi ining terrain. Little change i	e -		25X1
- •	peculiar shape and an unrevetted central guid- ance area. The launch positions are not drive- through. The distance across each site from launch position to launch position is approxi-	A student of the state of the s	d at Site 4 on coverage of by of photography of the immediate accessroad to not been cleared of snow no ositions appear to have been	or	<i>'</i> _ 2	25X1 25X1 25X1
25X	mately 750 feet. The radial pattern previously observed connecting launch positions and intersecting in the center of the site appears on KEYHOLE photography to form an internal roasystem. Perimeter roads have not been constructed around the sites. Equipment frequently can be seen, however, using the natural terrait for parking.	cleared, at least tography indicate recent snowstorm foot objects deploy 3 were not press	since the last snowfall. Pho d the possibility of a number ns in the area. The 50- by 20 byed on launch positions at Si	of O- te e.		25X1 25X1
		- 18 -	:			
			.*	. •		
	TOP SECRE	ET			-	25 <b>X</b>

1	TOP SECRET		25X
•		NPIC/R-162/64	
25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1	plete or nearly complete by  Between  building, approximately 100 by 40 feet, was constructed along one leg of the L-shaped pattern comprising Electronic Site B. On the two hardstands along the base of the leg and on adjoining terrain approximately 16 pieces of equipment or vehicles were positioned in and  A slight increase was noted in in pieces of equipment or vehicles, which then totaled 20. The area was relatively active on all available coverage. The area adjacent to and just beyond the double-fenced area of this site which was composed of two small buildings in was observed by  to be separately fenced and to contain three additional very small structures or pieces of equipment.	just east of the curved building, and a tower-like structure adjacent to the south side of the unidentified building. The probable missile-hold/launch building appeared to exist in an undetermined construction stage in The height of the building remains undetermined. A study of photography revealed the presence of two long vehicles and a gray pattern with no apparent height, positioned perpendicular and adjacent to the east side of the curved building. Just north of this building and apparently associated with the northernmost launch position was a gray pattern having no apparent height but resembling a segment of the curved building. An object with height was observed just west of this pattern. Pieces of equipment or small structures were noted at the site on and between each of the three launch positions as well as	25. 25.
25X1 25X1	The unusual road pattern located between Launch Sites 3 and 4 and Electronic Site B which appeared on photography as a possible building appeared on photography as a dark pattern and had not developed into a building.	scattered along the site. The 75- by 50-foot building did not appear to be drive-through but rather to be served by a narrow apron or road.  Launch Site 6  Components of Launch Site 6 did not change	
	LAUNCH SITES 5 AND 6 AND ELECTRONIC SITE C (Figure 16)  Launch Sites 5 and 6 and Electronic Site C are similar in many respects to the three operationally deployed probable AMM launch complexes and their associated electronic facilities near Leningrad.  Lounch Site 5	significantly from  This site is generally not as active as Site 5. Features similar to those found at Site 5 include a curved probable missile-hold/launch building (110 by 60 feet) and a building (75 by 50 feet) with an adjacent tower-like structure to the south. This site differs from Site 5 in having no bunker and in having only 2 instead of 3 launch positions. Equipment was positioned on,	25
25X1 25X1	Relatively little if any change is observed in major facilities at this site from however, equipment in varying amounts is noted and activity generally changes from mission to mission. Good-quality photography reveals the site to consist of a curved probable missile-hold launch building (110 by 60 feet), three roughly wedge-shaped launch positions approximately 210 feet apart, a bunker, an unidentified building (75 by 50 feet)	as well as between, each of these launch positions. The distance between the centers of the launch positions is approximately 210 feet. The curved building did not appear to exist but was noted for the first time in The 75- by 50-foot building did not appear to be drive-through but to be served only by a wide road or apron from one side. Just north of the curved building and apparently associated with the northern launch position ob-	25 25 25
] _	-	10 -	25
	TOP SECRET		25X

	TOP SE	CRET			
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ID.					
IB					
		COME	LECTRONIC SITE (  BOOM-LIKE -  STRUCTURE		
	il sice .	WEST SECTION 3	BUILDING (120' x 70'	TOWER-LIKE STRUCTURE	•
— Pos <b>—</b> Fac	ssible cable cilities/Equipment	BING x 70'5		ĵ.	
	CBUECT STRUCT	- LINE			
PROBATIO PROBATIO MISSILE-FOLD/ BUILDING		as .			
EQUIPMENT	BUILDING PRESENTED				
FIREBREAK	Y THE STUBE	2 LAUNCH POSITIONS	GATEHOUS	SES CHISITE 6	
LAUNCH	SITE 5		BUILDING 75' X 50')		
	LAUNCH SITES 1-4	PROBABLE WISSILE-HOLD/ LAUNCH BUILDING	TOWER-LIKE STRUCTURE		
FIGU	RE 16. LAUNCH COMPLEX ALAU	UNCH SITES 5 AND 6, AND EL	ECTRONIC SITE C	NEIC H-7837 (3 64)	25
4 - 4		- 20 -			
	TOP SE	CDET			

TOP SECRET		,	25 <b>X</b> 1
	NPIC/R-162'64.	î.	
served on photography was a dark	MISSILE STORAGE AND CHECKOUT	<b>\$</b> .	
pattern with no apparent, height and resembling	AREA AND ELECTRONIC SITE D (Figure 17)		
a portion of the curved building.  Electronic Site C	Changes observed in both Electronic Site D and the Missile Storage and Checkout Area		
The large central facility is the only one of	from	*	25X1
the four facilities comprising Electronic Site C to have undergone significant change from	only of the addition of several small struc-		
During that time the	tures and a probable vehicle in the latter area.  Better photography, however, has permitted		
large modified L-shaped building was under ex-	identification of a number of additional buildings		
tension to the west. Exterior construction of this extension, approximating 300 feet in length,	which existed previously but were not sufficiently		
appeared complete by  This extension	clear for identification. Of interest is a newly	1	
is wider, is not aligned with the remainder of	identified separately fenced facility along the		
the building, and is alternately dark and white	west-central boundary of the Missile Storage and Assembly Area composed of one partially	•	
in appearance. Roof details of this extension	revetted structure, one probable revetted struc-		
cannot be determined; however, the center roof	ture, at least four smaller structures, and		
section appears somewhat elevated. This central facility is situated approximately 4,000 feet	several possible long bar-type revetments. This		
northeast of the curved building at Launch Site 5	area probably is used for explosives storage and		0574
and 3,200 feet north-northwest of the curved-	appears to have undergone no significant change		25X1
building at Launch Site 6. The other eight build-	since	-	25X1
ings remain essentially unchanged since			25X1
The 50-foot dome observed in re-	All eight major buildings in the Missile		
mains in a fenced area, approximately 800 feet	Storage and Checkout Area are either drive-		
northwest of the central facility. One small	through or are served by an apron extending across the entire length of the building. In		
building and three very small structures or	twelve small structures, of which		25X1
vehicles also are noted close to the dome on photography of Just north-northwest	two are new, and one probable vehicle were		
of the dome are one or two very small un-	situated within this area as were five small		
identified structures.	square aprons. These aprons appear to be used		
The two extremities of Electronic Site C	for storage and handling operations rather than		
are approximately 3,800 feet apart and show	as foundations for buildings.  Electronic Site Ď, just north of the Missile		
no significant change since At the southwest extremity, the tower-like structure	Storage and Checkout Area and approximately		
which was present in remains cen-	7,900 feet southwest of the central facility at		
tered on a large apron serviced by an adjacent	Electronic Site C, appears unchanged in the last		
probably semiburied building (120 by 70 feet).	year. This separately fenced site is composed of a tower, 2 rectangular buildings, and 6		
This building is in turn serviced by a narrow	of a tower, 2 rectangular buildings, and o small structures.		
apron. At the northeast extremity generally similar facilities are present. A tall boom-like	A study of photography of		25X1
similar facilities are present. A tail boom-inco	revealed both the access roads and area		25X1
like structure.	components to be snow covered.		
-	21 -		
			25 <b>X</b> 1
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			25X1
EGIB		Road —— Trail ——— Fence ——— Possible cable	
(Lai		Revetment  Building	
		FEET (APPROXIMATE)	
		ELECTRONIC TO ELECTRONIC SITE D	
•		TOWER	
-		UNIDENTIFIED	
		PROBABLE PROBABLE VEHICLE	
		PROBABLE EXPLOSIVES STORAGE AREA	
		STRUCTURE MISSILE STORAGE	
		AND CHECKOUT AREA	
:			-
L	FIGURE 17. MISSILE STORAGE AND CHECKOUT AREA AND	D ELECTRONIC SITE D, LAUNCH COMPLEX A,	25X1
	LAUNCH C	COMPLEX B	
	SUPPORT AREA	LAUNCH AREA AND BUILDING TRIAD . (Figures 19, 20, and 21)	
	In the Support Area of Launch Complex B	Facility A	
25X1	(Figure 18) from three buildings were added in the housing area.	No significant change was observed from in Facility A on very	25X1
	and one warehouse appeared to have been re-	small scale photography. The light portion of	
	annotated on Figure 18 indicate new identifica-	the rectangular pad has assumed a somewhat tapered appearance at the two western corners.	
25X1	tion rather than new construction.  A study of photography reveals the	Details of the dark object in the approximate	
	Probable Storage, Assembly, and Checkout Fa- cility to be in an apparent state of abandonment.	coverage. The facilities and access road were	25X1
25X1	No new construction is evident since	Show covered on provide 1.1	
25X1	The loop road system which was well defined on photography is discernible on	3 med in pade B-1	
25X1	VEYHOLE photography but shows no evidence of recent usage.	and B-2 from	25X′
-			
	· · · · · · · · · · · · · · · · · · ·	22 -	
	TOP SECRET	T	25X
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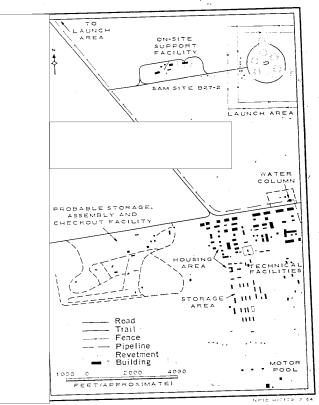


FIGURE 18. SUPPORT AREA, LAUNCH COMPLEX B, AUGUST 1963.

object of undetermined height is noted on all available recent photography in the center of each pad. Pad B-2 does not have the apparent depth of pad B-1. Just north of the center of pad B-2 a very small structure could be identified on coverage. Midway between the two pads is the previously identified probable bunker and several smaller facilities or objects.

ILLEGIB

25X1

Close to the southern boundary of Facility B is an unidentified area consisting of a loop road

which has been widened to form an apron along the southern part of the loop. A very small structure or object is positioned in the center of the loop road and four additional structures (including one probable bunker) in the area just north of the loop road. These facilities appeared complete or nearly complete in generally indistinct photography.

Construction has continued at the triad of buildings just southwest of Facility B reported

- 23 -

TOP SECRET

25**X**1

25X1

25X1

- A		TOP SECRET				1	25X
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2							
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			_			- 1	
	under construction in	NPIC/R-61/63. 5/ From	n Photography of	revealed to alar dish-like or disc	at a tau -like ob-	북	25X1
25X1		exterior construction o	n ject on top had be	en erected on the porti	on of the		
	completed Each ha	is an unidentified object of	u pulluling away ire	om the small buildings	uth of the		0574
	building itself appear	of. The large rectangula	ı- large building in	and appeare the rear of the bui	ed to have		25X1
25X1	tinuous construction	activity has been evident of A large circular ob	on been moved to				25X
	ject was observed or	n the ground adjacent to th	- An imidentill	ied structure parallel r building had been co	and close nstructed		
25X1	northwest corner of	the building in					
			2.1				
			- 24 -		1-		
		TOD SECDE	-т		e e e e e e e e e e e e e e e e e e e		25X

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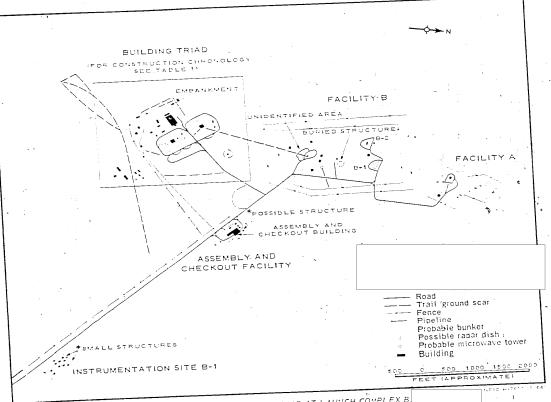


FIGURE 29. LAUNCH AREA AND BUILDING TRIAD AT LAUNCH COMPLEX B.

by this 150 by 25 feet and, although of undetermined height, is considerably lower than the rectangular building. Parallel to this structure and just west is a long irregular embankment (or mound-like structure) of unidenti-

25X1

An intricate system of ground scars or conduits has been developed at the site. Just east of the two square buildings is a road system which widens at several places and contains a

small dark pattern in the center of two of the aprons thus formed. Photography of revealed a ground scar extending from the northern of the two small buildings in a northeastern direction and by August the scar had reached the center of the loop road close to the southern boundary of Facility B. Numerous small facilities and pieces of equipment were observed at the site, some of which had appeared since

- 25 -

TOP SECRET

25**X**1

25X1

25X1

25X1

25X1

25X1

TOP SECRET NPIC R-162 64 FACILITY B BUILDING TRIAD 9 FIGURE 21. PERSPECTIVE OF BUILDING TRIAD, LAUNCH COMPLEX B 25X1 During the winter of activity was Launch Instrumentation Sites observed at the building triad and the road from 25X1 the complex support area to the triad although two small structures were added to Site B-1: one just west the road to Facilities A and B remained snow and the second just east of the observation buildcovered. ing. One additional probable structure was added Assembly and Checkout Facility in the northwest corner of Site B-2 during the The only discernible change at this facility same period. No significant change was noted from was the addition at Site B-3 on generally indistinct photography. of a possible structure along the loop road adja-Coverage is not sufficiently clear to permit cent to the assembly and checkout building. interpretation of Site B-4. INSTRUMENTATION SITE 10 25X1 The most significant development observed took place at the triad at Instrumentation Site 10 (Figure 22) from of buildings in the southwest corner of the site. - 26 -

25X1

25X1

25X1

25X1

25X1

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Details of activity here are presented in Table 1. No additional construction activity of significance is noted in the remainder of the site. An area of unidentified activity located east of the operational area across the main road, reported in NPIC R-61 63, 5/ appears unchanged since

that time and is composed of seven rectangular parallel buildings in one group and seven miscellaneous buildings scattered about the site. No new construction is evident in this latter area on generally indistinct photography.

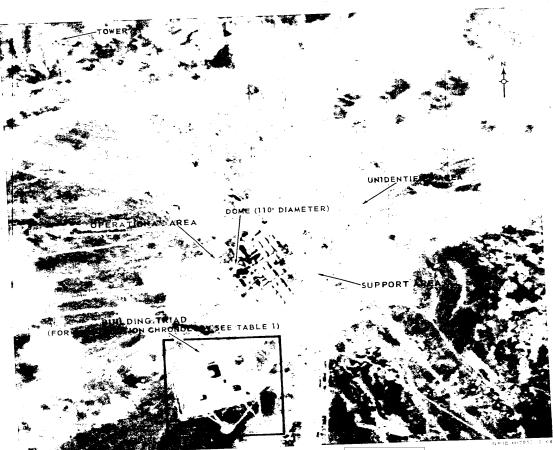


FIGURE 22. INSTRUMENTATION SITE 10.

27

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25X1

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#### POSSIBLE INSTRUMENTATION SITE 13

25X1

A triad of buildings has been under construction since at Possible Instrumentation Site 13 (Figure 23), located on the north shore of Lake Balkhash, 52 nm northeast of the center of the Sary-Shagan Support Base.

Construction details of this facility are presented in Table 1.

A support area just northeast of the building triad consists of two sections: the main section composed of approximately 19 buildings

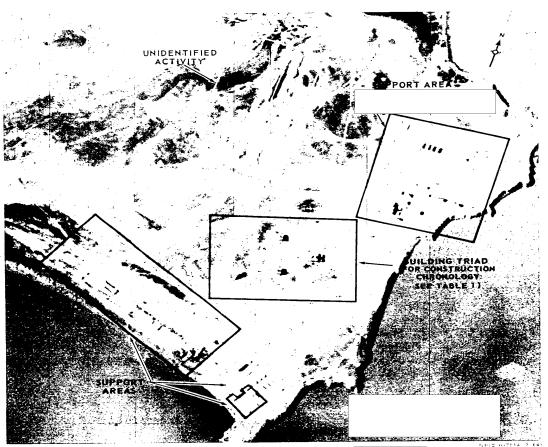


FIGURE 23. POSSIBLE INSTRUMENTATION SITE 13.

- 28 -

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25X1

25X1

25X1

25X1

23X I	2	5	X	1
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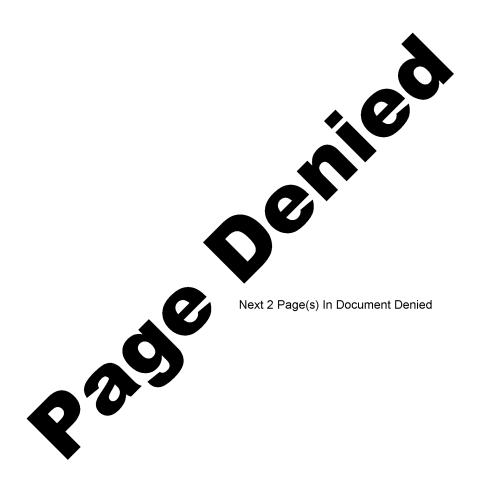
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	ILLEGIB				
	Mission and Date	Launch Complex B	Instrumentation Site 2	Instrumentation Site 10	Possible Instrumentation Site 13
·		No activity	No activity: photog- raphy indistinct	Activity undetermined: haze	No apparent activity; heavy haze
		Earth scarring	Not covered	Not covered	Not covered
		Not covered .	Outlines of 2 small bldgs visible; no evidence of large bldg	Not covered	Outlines of a bldgs barely discernible
		Three bldgs under construction	Two small bldgs appear complete with sobjects on roofs: large bldg under construction: 3 bldgs connected by ground scars	Two small bldgs probably under construc- tion; large bldg under construction (only walls observed)	Two small bldgs appear to have objects on roofs; construction activity on roof of large bldg
25X1		Two small bldgs 'appear complete with objects on roofs; roof construction on large bldg	Small bldgs appear complete with objects on roofs; large bldg under construction	One of 2 small bldgs appears complete with connecting ground seart large bldg appears complete with unidentified ob- ject on rear of bldg; 5 bldgs gray in tone; scarring at site	Activity continues on roof of large bldg; small bldgs appear complete with objects on roof
		No apparent change in small bldg-t large bldg appears complete with objects on rocf	No apparent/change (**) in small bldgs: large bldg under construc- (*) tion	Cloud covered	Not discomible ,
		No change in 8 bldgs: structure paralleling large bldg present; activity on the roof of large bldg and in gen- eral area; crance-like object just south of large bldg	No apparent change in small bldgs; large bldg appears complete with objects on roof; structure paralleling large bldg present	One small bldg dark in tone: the other light in tone, both with an object on the roof: the roof of the large bldg is half light and half dark in tone with an object on the dark half: structure paralleling large bldg present; possible calibration point observed	No change in small bldgs: construction activity continues on roof of large bldg: structure paralleling large bldg present; possible celibration point noted
		No change in 3 bldgs: some activity on roof of large bldg: ground sear under construc- tion from northern of 2 small bldg- in NE.	No discernible change: hazy photography	Cloud covered	Not covered
		direction Cloud covered	Not covered	Not covered	Identification only

25**X**1

TOP SECRET

		. Table 1. Conflet	red		
Mission and Date	Launch Complex B	Instrumentation Site 2	Instrumentation Site 10	Possible Instrumentation Site 13	
	No apparent change in 5 bldgs, except for construction activity on roof of large bldg	Two small bldgs light in tone with object on roof center; large bldg is light in tone with object on rear	Cloud covered	No change is facilities except for the ap- pearance of a square dark pattern on the roof	
	Two small bldgs un- changed; a tall tower with circular dish-like or disc-like object on top now positioned at rear q@large bldg; ground scar appears complete from north- ern square bldg to cen- ter of loop road within fenced area of Facili- ty B	of roof  No change in previously mentioned facilities: 2 unidentified light- toned objects appear north of the triad	The object on the roof of the light-toned small bldg is not discernible: activity noted on the roof of the dark-toned small bldg; work continues on roof of large bldg where unidentified object remains	No significant change in facilities.	
of 4 parallearea was  changed fr second sup building tr tures and facilities i sometime consisted o houses. section, l buildings,	sizes and a smaller secent rectangular buildings constructed between and has remained on that time to port area along the should be a solution of a probable batching the majority of those argely barracks and were developed between four noted as early as	and	A small area of orth-northwest of the remange until steensive excavation, so rities took place and production proximately 2,200 fmall structures and pent are evident with	blete the following month. excavation situated just building triad observed ained without significant At that time relatively craping, and grading ac- have continued through ucing a linear excavation eet long. Several very possible pieces of equip- in the site as well as a re under development in	
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DOCUMENTS							1		••	•
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